Lambda Expressions Introduction Exercises

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Function call operator example

- Write a class with a function call operator
  - The function call operator takes one argument, of type int
  - The function call operator returns bool
  - The return value is true if the argument is an exact multiple of 2, otherwise false
- Write a program to test your class

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The need for lambdas

- Describe some of the disadvantages of using functors to provide predicate functions for algorithms

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Lambda Expressions

- Explain briefly what is meant by a lambda expression
- Explain briefly how a lambda expression is implemented by the compiler

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Lambda Function Syntax

- When creating a lambda expression, how do we enter:
- Its name?
- Its arguments?
- Its function body?
- Its return type?

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Example of lambda expression

- Rewrite your program from the first slide to use a lambda expression instead of a functor

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